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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,960	06/24/2003	Masashi Nakashita	121027-194	1202
35684	7590 02/21/2006		EXAM	INER
BUTZEL L		XU, LING X		
350 SOUTH MAIN STREET SUITE 300			ART UNIT	PAPER NUMBER
	ANN ARBOR, MI 48104			
			DATE MAILED: 02/21/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/602,960	NAKASHITA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ling X. Xu	1775			
The MAILING DATE of this communication ap Period for Reply		vith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>06 F</u>					
· <u> </u>	, _				
3) Since this application is in condition for allows	·	•			
closed in accordance with the practice under	Ex paπe Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application	n.				
4a) Of the above claim(s) <u>9-12</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1,2 and 4-8</u> is/are rejected.					
7)⊠ Claim(s) <u>3</u> is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examin	er.				
10)⊠ The drawing(s) filed on 24 June 2003 is/are: a	a)⊠ accepted or b)⊡ obj	ected to by the Examiner.			
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct	ction is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreigna)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority documen	1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documen	2. Certified copies of the priority documents have been received in Application No				
3. Copies of the certified copies of the price	ority documents have bee	n received in this National Stage			
application from the International Burea	au (PCT Rule 17.2(a)).	·			
* See the attached detailed Office action for a lis	t of the certified copies no	t received.			
Attachment(s)					
1) Notice of References Cited (PTO-892)		Summary (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	3) 5) D Notice of	o(s)/Mail Date Informal Patent Application (PTO-152)			
Paper No(s)/Mail Date 6/24/03,10/26/04.	6)	•			

DETAILED ACTION

Election/Restrictions

1. Applicant's election of Group 1, claims 1-8, in the reply filed on 2/6/2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 9-12 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Election was made without traverse in the reply filed on 2/6/2006.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2, 4 and 7-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Baker (US 5,643,238).

Baker discloses an absorbent core structure comprising an outer layer 12, a moisture-pervious inner layer 14, and a moisture-absorbent core sandwiched between the layer 12 and 14 (col. 3, lines 35-50).

Baker also discloses that the moisture-absorbent core comprising storage cells and acquisition cells in a honeycomb-like configuration (abstract). The core comprises thermoplastic synthetic fibers, super-absorbent polymer particles, and fluff pulp (see col. 5, lines 10-67 and col. 6, lines 1-40) and has a plurality of through-holes (See Figs 3-6). The through-holes extend parallel to one another in a direction parallel to the upper and lower layers, each of the through-holes having a cross-sectional dimension is considered larger than any interstices that may have in the thermoplastic synthetic fibers (col. 7, lines 55-67 and Figs. 3-6). The moisture-absorbent core can be kept in a state compressed in the thickness direction with the through-holes being flattened and can also be elastically swollen in the thickness direction so that the flattened through-hole are restored to the initial cross-sectional shape as the super-absorbent polymer absorbs water and be swollen.

With respect to claim 2, Baker discloses that the super absorbent material 34 may be in particulate or fibrous form (col. 6, lines 15-50).

With respect to claim 4, Baker discloses that the plurality of honeycomb thin walls placed upon one another in a transverse direction and are at least partially connected to each other (see Figures 3-6).

With respect to claims 7-8, Baker discloses that the cross-sectional shape of the throughhole is a substantially rectangle and the diagonals of the rectangle is substantially in coincidence with the thickness direction (col. 9, lines 40-60 and Fig. 6). Application/Control Number: 10/602,960 Page 4

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baker, as applied to claim 1 above, and further in view of Brown et al. (US 2003/0104748).

As stated above, Baker discloses the same water-absorbent structure as recited in claim 1.

Baker does not disclose that the thermoplastic synthetic fibers are of crimped-type.

Brown teaches that the use of crimped type polymer has superior void volume and resilience and are useful as an absorbent core (abstract).

Therefore, it would have been obvious to one of ordinary skill in the art to use the crimped-type thermoplastic synthetic fibers in Baker's absorbent core structure in order to obtain a better absorbent article with superior void volume and resilience, as taught by Baker.

4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Baker as applied to claim 1 above, and further in view of the same reference.

As stated above, Baker discloses the same water-absorbent structure as recited in claim 1.

Baker does not disclose that the amount of the cellulose-based fibers and the superabsorbent polymer used in the water-absorbent structure.

However, differences in concentration will not support the patentability of subject matter encompassed by the prior art unless there is evidence indicating such concentration is critical.

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"[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235(CCPA 1955)

Therefore, it would have been obvious to one of ordinary skill in the art to discover the optimum or workable ranges of the cellulose-based fibers and the super-absorbent polymer used in the water-absorbent structure such as the amounts as recited in claim 6, absent of showing that such amounts are critical.

Allowable Subject Matter

- 5. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ling X. Xu whose telephone number is 571-272-1546. The examiner can normally be reached on 8:00 4:30 Monday Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah D. Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ling X. Xu

Primary Examiner
Art Unit 1775

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